

# Frontend & Fullstack/Backend Developer Assignment

## Overview

Your task is to build a **Job Board Platform** where companies can post job listings and candidates can apply for jobs. This project is designed to evaluate your expertise in **Next.js**, **Node.js**, and **Tailwind CSS**.

The scope of your work depends on the role you are applying for:

- **Frontend Developer:** Focus on UI development and API integration.
- **Backend Developer:** Build a robust API and database layer.
- **Fullstack Developer:** Implement both frontend and backend functionality.

## Tech Stack

- **Frontend:** Next.js, Tailwind CSS
- **Backend:** Node.js (Express/NestJS), MongoDB/PostgreSQL
- **Authentication:** JWT or NextAuth
- **Deployment:** Vercel (Frontend) & Render/Fly.io (Backend)

## Requirements

### General (For All Roles)

- ✓ Implement authentication using **JWT or NextAuth**.
- ✓ Use **MongoDB or PostgreSQL** to store job listings and applications.
- ✓ Deploy the project and provide a live link.
- ✓ Follow **clean code** practices and maintain **meaningful Git commits**.

### Frontend Developer Tasks (4 Hours)

If you are applying for a frontend role, focus on UI and API consumption:

- ✓ Build a **homepage** displaying job listings.

- ✓ Create a **job details** page.
- ✓ Develop a **company dashboard** (using mock data) for posting jobs.
- ✓ Use **React Hook Form or Zod** for form validation.
- ✓ Implement **dark mode** using Tailwind.
- ✓ Manage state with **Zustand or Redux**.

## Backend Developer Tasks (4 Hours)

If you are applying for a backend role, focus on API and database development:

- ✓ Implement authentication (**JWT or NextAuth**).
- ✓ Develop a **REST API or GraphQL** to handle:
  - Job postings
  - Fetching job listings
  - Applying for jobs
- ✓ Implement **WebSockets** for real-time job updates.
- ✓ Add **rate limiting** for API security.

## Fullstack Developer Tasks (8 Hours)

If you are applying for a fullstack role, complete both frontend and backend tasks:

- ✓ Implement **role-based access control** (Admin, Company, Job Seeker).
- ✓ Enable **file uploads** for resumes.
- ✓ Build a **minimal dashboard** for companies to manage job postings.
- ✓ Optimize database queries using **Prisma or Sequelize**.

## Bonus Features (For All Candidates)

- ★ Implement **unit & integration tests** using Jest, Cypress, or Vitest.
- ★ Use **SSR & SSG** for optimized rendering.
- ★ Add **AI-powered job recommendations** using the OpenAI API.

## Submission Guidelines

Even if your project is incomplete, submit whatever you have within the deadline. We prioritize **your approach** over full completion.

## What to Submit?

- ☐ **GitHub repo link** (even if work is unfinished).
- ☐ A **brief README** explaining:
  - What's working?
  - What's missing?
  - How would you complete it with more time?
    - ☐ **(Optional)** Deployed link, if available.

## Evaluation Criteria

- ✓ **Code Quality & Structure** (clean code, meaningful commits).
- ✓ **UI/UX & Responsiveness** (for frontend/fullstack roles).
- ✓ **API Design & Security** (for backend/fullstack roles).
- ✓ **Performance Optimization.**
- ✓ **Bonus Features Implemented.**
- ☐ **Give it your best shot, but don't stress—just submit what you have!**